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## RESULT OF YOUR SEARCH

You are in : [Control Automation](#) / [Panel-mounted electronic timers](#) / [MBA \(Ø 22 mm\)](#) / [MIN BOUF](#) / [MIN BOU](#)

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**Selling points of the range :**

- Solid state output
- Panel-mounted pushbutton-type timer
- Function A delay on energisation
- 10 timing ranges : 0.05 s to 60 min
- Supply 24 V DC and 110 → 240 V DC AC 50 → 60 Hz
- Fast adjustment of timing period on PLCs (compatible with IEC1131)
- IP 65



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### Specifications

Functions	A
Time ranges	3 s → 60 s
Output	State
Supply voltage	24 V DC
Nominal rating	200 mA
Drift Voltage	+/- 0,2%/V
Material housing	
Display accuracy	± 5%
Voltage drop at terminals	MBA2F: ⚡ 5 V AC MBA3F: ⚡ 3 V DC
Electrical life (number of operations)	> 10 <sup>8</sup>
Repetition accuracy (with constant parameters)	+/-0,2%
Protection against load short circuits	-
Varistor protection against overvoltage	-
Protection class according to NFC C 20010 - IEC 529 - DIN 40050	IP10
Terminal	
Terminal capacity Single-wire	1 x 4 mm <sup>2</sup>
Terminal capacity Multi-wire with ferrule	1 x 2,5 mm <sup>2</sup>
Terminal screws	M3
Weight (g)	27
Leakage current	MBA2F : ⚡ 5 mA AC MBA3F : ⚡ 0,1 mA DC
Tightening torque (Nm)	0,5 Nm
Ripple	± 10%
Dielectric strength (Vrms)	1500 V / 50 Hz / 1 min
Temperatures limits use (°C)	-20 → +60
Drift Temperature	+/- 0,05%/°C
Maximum reset time by de-energisation MIN BOU during timed delay	7 ms
Display of output state by LED : Power on	-
Maximum reset time by de-energisation MBA2F after timing	30 ms
Solid state open collector PNP output	-
Nominal rating	MBA2F: 400 mA at 200°C (derating 5 mA/°C) MBA3F: 200 mA at 20 °C (derating 1.5 mA/°C)
Protection against polarity inversions	-
Display of output state by LED : output in operation	-
Conformity to standards VDE 0435 / ICE 255 / ICE 1131 / ICE 801 4	-
Protection class according to NFC C 20010-IEC 529-DIN 40050	IP65
Panel-mounted	
Temperature limits stored (°C)	- - - - -

temperature limits stored ( °C )	-20 → +80
Maximum reset time by de-energisation MBA2F after timing	60 ms
Maximum reset time by de-energisation MIN BOU after timing	5 ms

### Products in the same range

#### MBA2F

Functions	Time ranges	Output	Supply voltage	Nominal rating
A	0,1 s → 1 s	state	100 → 240 V AC/DC	400 mA
A	0,5 s → 10 s	state	100 → 240 V AC/DC	400 mA
A	3 s → 60 s	state	100 → 240 V AC/DC	400 mA
A	0,5 min → 10 min	state	100 → 240 V AC/DC	400 mA
A	3 min → 60 min	state	100 → 240 V AC/DC	400 mA

#### MIN BOU

Functions	Time ranges	Output	Supply voltage	Nominal rating
A	0,1 s → 1 s	State	24 V DC	200 mA
A	0,5 s → 10 s	State	24 V DC	200 mA
A	3 s → 60 s	State	24 V DC	200 mA
A	0,5 min → 10 min	State	24 V DC	200 mA
A	3 min → 60 min	State	24 V DC	200 mA



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